SEQUENCE LISTING      10 R████ ███████ 23 SEP 2002

```
<110>  Lexow, Preben

<120>  Method of cloning and producing fragment chains with readable
information content

<130>  1181-256

<140>  US 10/019258
<141>  2001-12-28

<150>  PCT/GB00/02512
<151>  2000-06-27

<150>  NO 20003191
<151>  2000-06-20

<150>  NO 20003190
<151>  2000-06-20

<150>  NO 19991325
<151>  1999-06-28

<160>  105

<170>  PatentIn version 3.1

<210>  1
<211>  11
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  Adapter

<220>
<221>  misc_feature
<222>  (8)..(9)
<223>  N is any nucleotide.


<400>  1
ggcccccnna a                                                    11


<210>  2
<211>  11
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  Adapter

<220>
```

```
<221>  misc_feature
<222>  (7)..(9)
<223>  N is any nucleotide.


<400>  2
ggggccnnnc t                                                    11


<210>  3
<211>  23
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  BbvI overhang

<400>  3
cgagcgcctc cagtgcagcg gag                                       23


<210>  4
<211>  24
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  BbvI overhang

<400>  4
tatcgcgcct ccagtgcagc ggag                                      24


<210>  5
<211>  24
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  BbvI overhang

<400>  5
ctctgcgcct ccagtgcagc ggag                                      24


<210>  6
<211>  24
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  BbvI overhang 6 (delC)

<400>  6
ctctctccgc tgcactggag gcgc                                      24
```

2

<210>  7
<211>  24
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  BbvI overhang 7a

<400>  7
caacgcgcct ccagtgcagc ggag                                              24


<210>  8
<211>  24
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  BbvI overhang 9b

<400>  8
ggtagcgcct ccagtgcagc ggag                                              24


<210>  9
<211>  25
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  Cloning site 1a

<400>  9
aagagctccg ctgcactgga ggcgc                                             25


<210>  10
<211>  25
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  Cloning site 1b

<400>  10
ctcttctccg ctgcactgga ggcgc                                             25


<210>  11
<211>  35
<212>  DNA
<213>  Artificial Sequence

```
<220>
<223>  Consensus binding motifs of the initiation linkers

<220>
<221>  misc_feature
<222>  (19)..(24)
<223>  N is any nucleotide.


<400>  11
gcagcgacca tgagtccanc tcnngtggat gacgc                              35


<210>  12
<211>  37
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  Initiation linker

<220>
<221>  misc_feature
<222>  (19)..(37)
<223>  N is any nucleotide with the proviso that the DNA sequence from 3
       2 to 37 is not palindromic.


<400>  12
gcagcgacca tgagtccanc tcnngtggat gnnnnnn                            37


<210>  13
<211>  38
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  Initiation linker

<220>
<221>  misc_feature
<222>  (19)..(38)
<223>  N is any nucleotide with the proviso that the DNA sequence from 3
       3 to 38 is not palindromic.


<400>  13
gcagcgacca tgagtccanc tcnngtggat gnnnnnnn                           38


<210>  14
<211>  39
<212>  DNA
<213>  Artificial Sequence
```

```
<220>
<223>  Initiation linker

<220>
<221>  misc_feature
<222>  (19)..(39)
<223>  N is any nucleotide with the proviso that the DNA sequence from 3
       4 to 39 is not palindromic.


<400>  14
gcagcgacca tgagtccanc tcnngtggat gnnnnnnnn                            39


<210>  15
<211>  40
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  Initiation linker

<220>
<221>  misc_feature
<222>  (19)..(40)
<223>  N is any nucleotide with the proviso that the DNA sequence from 3
       5 to 40  is not palindromic.


<400>  15
gcagcgacca tgagtccanc tcnngtggat gnnnnnnnnn                           40


<210>  16
<211>  41
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  Initiation linker

<220>
<221>  misc_feature
<222>  (19)..(41)
<223>  N is any nucleotide with the proviso that the DNA sequence from 3
       6 to 41 is not palindromic.


<400>  16
gcagcgacca tgagtccanc tcnngtggat gacgcnnnnn n                         41


<210>  17
<211>  42
```

5

```
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   Initiation linker

<220>
<221>   misc_feature
<222>   (19)..(42)
<223>   N is any nucleotide with the proviso that the DNA sequence from 3
        7 to 42 is not palindromic.


<400>   17
gcagcgacca tgagtccanc tcnngtggat gacgcnnnnn nn                              42


<210>   18
<211>   43
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   Initiation linker

<220>
<221>   misc_feature
<222>   (19)..(43)
<223>   N is any nucleotide with the proviso that the DNA sequence from 3
        8 to 43 is not palindromic.


<400>   18
gcagcgacca tgagtccanc tcnngtggat gacgcnnnnn nnn                             43


<210>   19
<211>   44
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   Initiation linker

<220>
<221>   misc_feature
<222>   (19)..(44)
<223>   N is any nucleotide with the proviso that the DNA sequence from 3
        9 to 44 is not palindromic.


<400>   19
gcagcgacca tgagtccanc tcnngtggat gacgcnnnnn nnnn                            44
```

6

```
<210>  20
<211>  45
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  Initiation linker

<220>
<221>  misc_feature
<222>  (19)..(45)
<223>  N is any nucleotide with the proviso that the DNA sequence from 4
       0 to 45 is not palindromic.


<400>  20
gcagcgacca tgagtccanc tcnngtggat gacgcnnnnn nnnnn                          45


<210>  21
<211>  46
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  Initiation linker

<220>
<221>  misc_feature
<222>  (19)..(46)
<223>  N is any nucleotide with the proviso that the DNA sequence from 4
       1 to 46 is not palindromic.


<400>  21
gcagcgacca tgagtccanc tcnngtggat gacgcnnnnn nnnnnn                         46


<210>  22
<211>  50
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  Synthetic oligonucleotide

<400>  22
taatacgact cactatacca caagtttgta caaaaaagca ggctctattc                     50


<210>  23
<211>  56
<212>  DNA
<213>  Artificial Sequence
```

```
<220>
<223>  Synthetic oligonucleotide

<400>  23
taggaagaat agagcctgct tttttgtaca aacttgtggt atagtgagtc gtatta          56


<210>  24
<211>  45
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  Synthetic oligonucleotide

<400>  24
ttcctatgca gtggaccact ttgtacaaga aagctgggtt gcagt                      45


<210>  25
<211>  45
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  Synthetic oligonucleotide

<400>  25
gcaactactg caacccagct ttcttgtaca aagtggtcca ctgca                      45


<210>  26
<211>  45
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  Synthetic oligonucleotide

<400>  26
agttgcttga cgccacaagt ttgtacaaaa aagcaggctt tgacg                      45


<210>  27
<211>  45
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  Synthetic oligonucleotide

<400>  27
cgacatcgtc aaagcctgct tttttgtaca aacttgtggc gtcaa                      45
```

8

<210> 28
<211> 45
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide

<400> 28
atgtcgaagg gcggaccact ttgtacaaga aagctgggta agggc                          45


<210> 29
<211> 45
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide

<400> 29
gacagggccc ttacccagct ttcttgtaca aagtggtccg ccctt                          45


<210> 30
<211> 58
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide

<400> 30
cctgtcatgt ggaccacttt gtacaagaaa gctgggtttc tatagtgtca cctaaatc           58


<210> 31
<211> 52
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide

<400> 31
gatttaggtg acactataga aacccagctt tcttgtacaa agtggtccac at                  52


<210> 32
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide

<400> 32
taatacgact cactatacca                                                              20


<210> 33
<211> 17
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide

<400> 33
taatacgact cactata                                                                 17


<210> 34
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide

<400> 34
aagatatcac agtggattta g                                                            21


<210> 35
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Fragment chain 2 terminal

<400> 35
ttctatagtg tcacctaaat c                                                            21


<210> 36
<211> 46
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 36
tcaacggcaa cctacatgac catccgattt aggtgacact atagaa                                 46


<210> 37
<211> 47

```
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   Primer

<400>   37
gtcatgtagg ttgccgttga tccatcctaa tacgactcac tatagca                    47


<210>   38
<211>   20
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   Fragment chain 3 terminal

<400>   38
tgctatagtg agtcgtatta                                                  20


<210>   39
<211>   20
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   Initiation linker 1 (s)

<400>   39
attcggtcga gatgctctca                                                  20


<210>   40
<211>   24
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   Initiation linker 1 (as)

<400>   40
cgactgagag catctcgacc gaat                                             24


<210>   41
<211>   21
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   Initiation linker 2

<400>   41
```

gcgttactga gcgtagctct g                                                 21


<210>  42
<211>  25
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  Initiation linker 2 (as)

<400>  42
ctctcagagc tacgctcagt aacgc                                             25


<210>  43
<211>  24
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  Propagation linker (s)

<220>
<221>  misc_feature
<222>  (20)..(24)
<223>  N is any nucleotide.


<400>  43
tgctgcagga gcgaatctcn nnnn                                              24


<210>  44
<211>  19
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  Propagation linker (as)

<400>  44
gagattcgct cctgcagca                                                    19


<210>  45
<211>  24
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  Labeling linker 2 (s)

<400>  45
ctcttgctat agtgagtcgt atta                                             24

```
<210>   46
<211>   20
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   Labeling linker 2 (as)

<400>   46
taatacgact cactatagca                                              20


<210>   47
<211>   30
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   Termination linker 1 (s)

<400>   47
aagagctcag gtcattgacg tagctatgaa                                   30


<210>   48
<211>   20
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   Termination linker 1/2 (as)

<400>   48
agctacgtca atgacctgag                                              20


<210>   49
<211>   10
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   Termination linker 1 (short version)

<400>   49
aagagatgaa                                                         10


<210>   50
<211>   29
<212>   DNA
<213>   Artificial Sequence
```

13

```
<220>
<223>  Termination linker 2 (s)

<400>  50
accgctcagg tcattgacgt agcttcatt                                        29


<210>  51
<211>  11
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  0 starting fragment, position 1

<400>  51
gggggggggaa a                                                          11


<210>  52
<211>  11
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  0 starting fragment, position 2

<400>  52
gggggggggaa c                                                          11


<210>  53
<211>  12
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  0 starting fragment, position 2

<400>  53
cccccccct tt                                                           12


<210>  54
<211>  10
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  1 starting fragment, postion 2

<400>  54
aaaaaaaac                                                              10
```

14

<210> 55
<211> 11
<212> DNA
<213> Artificial Sequence

<220>
<223> 0 starting fragment, postion 7

<400> 55
ggggggggcc g                                                              11


<210> 56
<211> 12
<212> DNA
<213> Artificial Sequence

<220>
<223> 0 starting fragment, postion 7

<400> 56
cccccccccg cg                                                             12


<210> 57
<211> 10
<212> DNA
<213> Artificial Sequence

<220>
<223> 1 starting fragment, postion 7

<400> 57
aaaaaaaccg                                                                10


<210> 58
<211> 11
<212> DNA
<213> Artificial Sequence

<220>
<223> 1 starting fragment, postion 7

<400> 58
ttttttttgc g                                                              11


<210> 59
<211> 12
<212> DNA
<213> Artificial Sequence

<220>
<223> 0 starting fragment, postion 8

```
<400>  59
ccccccccc gg                                                        12


<210>  60
<211>  11
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  1 starting fragment, postion 8

<400>  60
tttttttttcg g                                                        11


<210>  61
<211>  14
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  Fragment 0, position 1.2

<400>  61
aaagggggggg gaaa                                                     14


<210>  62
<211>  13
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  Fragment 1, position 1.3

<400>  62
aacaaaaaaaa aaa                                                      13


<210>  63
<211>  14
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  Fragment 0, position 8.1

<400>  63
tttccccccc cccg                                                      14


<210>  64
<211>  13
```

```
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   Fragment 1, position 8.1

<400>   64
ttttttttt  tcg                                                        13


<210>   65
<211>   14
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   Fragment 0, position 8.2

<400>   65
gttcccccccc  cccg                                                     14


<210>   66
<211>   13
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   Fragment 1, position 8.2

<400>   66
gttttttttt  tcg                                                       13


<210>   67
<211>   14
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   Fragment 0, position 8.3

<400>   67
cttcccccccc  cccg                                                     14


<210>   68
<211>   13
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   Fragment 1, position 8.3

<400>   68
```

cttttttttt tcg                                                    13


<210> 69
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
<223> Initiation linker

<220>
<221> misc_feature
<222> (8)..(13)
<223> N is any nucleotide.


<400> 69
catccacnng agntggactc atggtcgctg c                                31


<210> 70
<211> 32
<212> DNA
<213> Artificial Sequence

<220>
<223> Initiation linker

<220>
<221> misc_feature
<222> (1)..(14)
<223> N is any nucleotide.


<400> 70
ncatccacnn gagntggact catggtcgct gc                               32


<210> 71
<211> 33
<212> DNA
<213> Artificial Sequence

<220>
<223> Initiation linker

<220>
<221> misc_feature
<222> (1)..(15)
<223> N is any nucleotide.


<400> 71
nncatccacn ngagntggac tcatggtcgc tgc                              33

```
<210>  72
<211>  34
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  Initiation linker

<220>
<221>  misc_feature
<222>  (1)..(16)
<223>  N is any nucleotide.


<400>  72
nnncatccac nngagntgga ctcatggtcg ctgc                          34


<210>  73
<211>  35
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  Initiation linker

<220>
<221>  misc_feature
<222>  (12)..(17)
<223>  N is any nucleotide.


<400>  73
gcgtcatcca cnngagntgg actcatggtc gctgc                         35


<210>  74
<211>  36
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  Initiation linker

<220>
<221>  misc_feature
<222>  (1)..(18)
<223>  N is any nucleotide.


<400>  74
ngcgtcatcc acnngagntg gactcatggt cgctgc                        36
```

19

<210> 75
<211> 37
<212> DNA
<213> Artificial Sequence

<220>
<223> Initiation linker

<220>
<221> misc_feature
<222> (1)..(19)
<223> N is any nucleotide.


<400> 75
nngcgtcatc cacnngagnt ggactcatgg tcgctgc                                    37


<210> 76
<211> 38
<212> DNA
<213> Artificial Sequence

<220>
<223> Initiation linker

<220>
<221> misc_feature
<222> (1)..(20)
<223> N is any nucleotide.


<400> 76
nnngcgtcat ccacnngagn tggactcatg gtcgctgc                                   38


<210> 77
<211> 39
<212> DNA
<213> Artificial Sequence

<220>
<223> Initiation linker

<220>
<221> misc_feature
<222> (1)..(21)
<223> N is any nucleotide.


<400> 77
nnnngcgtca tccacnngag ntggactcat ggtcgctgc                                  39


20

```
<210>   78
<211>   40
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   Initiation linker

<220>
<221>   misc_feature
<222>   (1)..(22)
<223>   N is any nucleotide.


<400>   78
nnnnngcgtc atccacnnga gntggactca tggtcgctgc                    40


<210>   79
<211>   10
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   Propagation linker HgaI

<220>
<221>   misc_feature
<222>   (1)..(5)
<223>   N is any nucleotide.


<400>   79
nnnnngcgtc                                                     10


<210>   80
<211>   32
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   Gene A from PHIX174

<400>   80
gctggaggcc tccactatga aatcgcgtag ag                            32


<210>   81
<211>   28
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   Gene A from PHIX174
```

```
<400>  81
ctggcggaaa atgagaaaat tcgaccta                                          28


<210>  82
<211>  13
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  Recognition motif of the N-terminal part of the hsdS subunit of S
       tyR 1241

<220>
<221>  misc_feature
<222>  (4)..(9)
<223>  N is any nucleotide.


<400>  82
gaannnnnnr tcg                                                          13


<210>  83
<211>  14
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  Recognition motif of the C-terminal part of the hsdS subunit of S
       tyR 1241

<220>
<221>  misc_feature
<222>  (4)..(10)
<223>  N is any nucleotide.


<400>  83
tcannnnnnn rttc                                                         14


<210>  84
<211>  13
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  Recognition motif of a new enzyme made by merging the N- and C-te
       rminal parts of the hsdS subunit of StyR 1241

<220>
<221>  misc_feature
<222>  (4)..(9)
```

<223>  N is any nucleotide.


<400>  84
gaannnnnnr ttc                                                              13


<210>  85
<211>  40
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  Ligated initiation linker

<220>
<221>  misc_feature
<222>  (1)..(22)
<223>  N is any nucleotide with the proviso that the sequence from 1 to
       6 is complemantary to the sequence from 40 to 35 of SEQ ID NO: 15
       .


<400>  85
nnnnnnnnnc atccacnnga gntggactca tggtcgctgc                                 40


<210>  86
<211>  47
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  An example of sequences that generate 5'-4 base overhangs by BbsI
       and Esp3I

<220>
<221>  misc_feature
<222>  (1)..(47)
<223>  N is any nucleotide.


<400>  86
nnnnnnnnga gcngagacgn nnnnngaaga cnngagcnnn nnnnnnn                          47


<210>  87
<211>  47
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  An example of sequences that generate 5'-4 base overhangs by BbsI
       and Esp3I

<220>
<221>  misc_feature
<222>  (1)..(47)
<223>  N is any nucleotide.


<400>  87
nnnnnnnnnn gctcnngtct tcnnnnnncg tctcngctcn nnnnnnn                          47


<210>  88
<211>  29
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  An example of 5' -4 base overhangs generated by BbsI and Esp3I cl
       eavage

<220>
<221>  misc_feature
<222>  (5)..(25)
<223>  N is any nucleotide.


<400>  88
gagcngagac gnnnnnngaa gacnngagc                                             29


<210>  89
<211>  25
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  An example of 5' -4 base overhangs generated by BbsI and Esp3I cl
       eavage

<220>
<221>  misc_feature
<222>  (5)..(25)
<223>  N is any nucleotide.


<400>  89
gctcnngtct tcnnnnnncg tctcn                                                 25


<210>  90
<211>  22
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  An example of ligation products between 5' -4 base overhangs gene

```
<220>
<221>  misc_feature
<222>  (1)..(22)
<223>  N is any nucleotide.


<400>  90
nnnnnnnnga gcnnnnnnnn nn                                              22


<210>  91
<211>  22
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  An example of ligation products between 5' -4 base overhangs gene
       rated by BbsI and Esp3I cleavage

<220>
<221>  misc_feature
<222>  (1)..(22)
<223>  N is any nucleotide.


<400>  91
nnnnnnnnnn gctcnnnnnn nn                                              22


<210>  92
<211>  51
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  An example of sequences that generate two 3' 3 base overhangs by
       BsaXI

<220>
<221>  misc_feature
<222>  (1)..(51)
<223>  N is any nucleotide.


<400>  92
nnnnnnnnga gnnnnnnnnn acnnnnnctc cnnnnnnnga gnnnnnnnnn n              51


<210>  93
<211>  51
<212>  DNA
<213>  Artificial Sequence
```

```
<220>
<223>   An example of sequences that generate two 3' 3 base overhangs by
        BsaXI

<220>
<221>   misc_feature
<222>   (1)..(51)
<223>   N is any nucleotide.


<400>   93
nnnnnnnnnn ctcnnnnnnn ggagnnnnng tnnnnnnnnn ctcnnnnnnn n              51


<210>   94
<211>   30
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   An example of 3' 3 base overhangs generated by BsaXI cleavage

<220>
<221>   misc_feature
<222>   (1)..(27)
<223>   N is any nucleotide.


<400>   94
nnnnnnnnna cnnnnnctcc nnnnnnngag                                      30


<210>   95
<211>   30
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   An example of 3' 3 base overhangs generated by BsaXI cleavage

<220>
<221>   misc_feature
<222>   (1)..(27)
<223>   N is any nucleotide.


<400>   95
nnnnnnngga gnnnnngtnn nnnnnnnctc                                      30


<210>   96
<211>   44
<212>   DNA
<213>   Artificial Sequence
```

```
<220>
<223>  An example of sequences that generated blunt ends by MlyI

<220>
<221>  misc_feature
<222>  (1)..(44)
<223>  N is any nucleotide.


<400>  96
nnnnnnnnnn nnnnnnnnnn nnnngagtcn nnnnnnnnnn nnnn                              44


<210>  97
<211>  26
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  An example of 3' 3 base overhangs generated by MlyI cleavage

<220>
<221>  misc_feature
<222>  (1)..(26)
<223>  N is any nucleotide.


<400>  97
nnnnnnnnnn nnnnnngagt cnnnnn                                                  26


<210>  98
<211>  30
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  Gene A from PHIX174

<400>  98
ctacgcgatt tcatagtgga ggcctccagc                                             30


<210>  99
<211>  28
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  Gene A from PHIX174

<400>  99
ggtcgaattt tctcattttc cgccagca                                               28
```

```
<210>   100
<211>   10
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   1 starting fragment, position 1

<400>   100
aaaaaaaaaa                                              10


<210>   101
<211>   11
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   1 starting fragment, position 2

<400>   101
ttttttttt t                                            11


<210>   102
<211>   13
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   Fragment 1, position 1.2

<400>   102
aaaaaaaaaa aaa                                         13


<210>   103
<211>   14
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   Fragment 0, position 1.3

<400>   103
aacgggggg gaaa                                         14


<210>   104
<211>   14
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   Fragment 0, position 8.3
```

```
<400>  104
cttcccccc cccg                                                          14


<210>  105
<211>  13
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  Fragment 1, position 8.3

<400>  105
ctttttttttt tcg                                                         13
```